

8

Notice of Allowability	Application No.	Applicant(s)	
	09/648,368	PRECHTL ET AL.	
	Examiner	Art Unit	
	Prasad R Akkapeddi	2871	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 05/18/2004.
2. The allowed claim(s) is/are 1,3-21 and 24-35.
3. The drawings filed on 04 February 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date 05/07/2004 .
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

DETAILED ACTION

Election/Restrictions

1. Claims 1, 3-8, 21, 24-27 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 9-20, 28-35, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 9-20 and 28-35 hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in Paper No. 07/30/2003 is hereby withdrawn.

Allowable Subject Matter

2. Claims 1, 3-21 and 24-35 are allowed.
3. The following is an examiner's statement of reasons for allowance:

A search of prior art did not disclose a cholesteric layered material or a cholesteric pigment and a process of production of such a material comprising a combination of structural elements, more specifically:

(a) *Three-dimensionally cross-linked aligned cholesteric layer*, wherein the cross-linked cholesteric layer does not exhibit any color shift which can be induced by external stimuli selected from the group consisting of changes in the temperature of the layered material, the action of diluents on the layered material and combinations thereof, as recited in claim 1.

(b) *Three-dimensionally cross-linked aligned cholesteric layer*, wherein the three dimensionally cross-linked cholesteric layer does not exhibit any color shift which can be induced by external stimuli selected from the group consisting of the indicated parameters as recited in claim 3

(b) *A cholesteric pigment comprising one three dimensionally cross-linked, aligned cholesteric layer having a mean particle size in the range from 5 to 50 microns and a thickness of from 0.2 to 5 microns wherein the cross-linked cholesteric layer exhibits no visually evident color shift.*

The cited prior art teaches the use of a device produced by a polymerization-induced phase separation (PIPS) technique that is not three dimensionally cross-linked as described in the evidence document submitted by the applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

4. Applicant's arguments, see Remarks, filed 03/12/2004, with respect to claims 1 and 8 have been fully considered and are persuasive. The rejection of 12/15/2003 has been withdrawn.

In addition, the Examiner has considered the additional evidence submitted by the applicant (at the request of the Examiner) regarding the

polymerization-induced phase separation (PIPS) and the withdrawal of the previous office action is based on this evidence.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 571-272-2285. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Prasad R Akkapeddi, Ph.D
Examiner
Art Unit 2871



ROBERT H. KIM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800